

Concept of proposed additional test campaign and estimate of necessary quantity of Molded SRTT worn

IWG WGWT

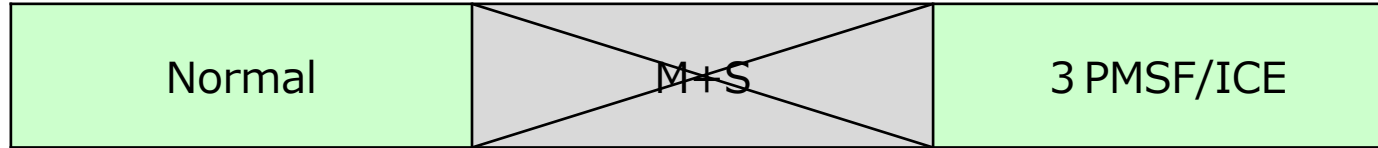
29 November 2021



JAPAN AUTOMOBILE STANDARDS INTERNATIONALIZATION CENTER

1) Assess day to day variation of Molded SRTTworn and equations of calculations

- Candidate tyres: All Normal and 3PMSF tyres provided to test centers in the first test campaign



M+S tyres are excluded from 2nd test campaign

- Participants : All Test centers

- Test sequence :

Basic sequence

Molded SRTTw – Buffed SRTTw – Candidate 1 – Candidate 2 – Molded SRTTw – SRTTn – Candidate 3 – Candidate 4 – Molded SRTTw



To assess day to day variation, the Normal tyre and the 3PMSF tyre with the lowest μ_{peak} value among each category in the first test campaign are tested for 4 consecutive days.

Day 1	Molded SRTTw – Candidate Normal (lowest μ_{peak}) – Candidate 3PMSF (lowest μ_{peak}) – Molded SRTTw
Day 2	Molded SRTTw – Candidate Normal (lowest μ_{peak}) – Candidate 3PMSF (lowest μ_{peak}) – Molded SRTTw
Day 3	Molded SRTTw – Candidate Normal (lowest μ_{peak}) – Candidate 3PMSF (lowest μ_{peak}) – Molded SRTTw
Day 4	Molded SRTTw – Candidate Normal (lowest μ_{peak}) – Candidate 3PMSF (lowest μ_{peak}) – Molded SRTTw

2) Water depth / road surface roughness

■ Participants : Test center which performed water depth evaluation of analytical plan

■ Test sequence :

Day1 Water depth 0.5mm

Molded SRTTw – Buffed SRTTw – Candidate A – Candidate B – Molded SRTTw – SRTTn - Candidate C – Molded SRTTw

Day2 Water depth 1.0mm

Molded SRTTw – Buffed SRTTw – Candidate A – Candidate B – Molded SRTTw – SRTTn - Candidate C – Molded SRTTw

Day3 Water depth 1.5mm

Molded SRTTw – Buffed SRTTw – Candidate A – Candidate B – Molded SRTTw – SRTTn - Candidate C – Molded SRTTw

Day4 Water depth 2.0mm

Molded SRTTw – Buffed SRTTw – Candidate A – Candidate B – Molded SRTTw – SRTTn - Candidate C – Molded SRTTw

JASIC recommend to produce Molded SRTT worn : **146 tyres**

1.5 time number of 1st test campaign*

+ additional spare (1 set/lab) for emergency purpose

* In the first test campaign, 50% of the sequences were performed on Buffed SRTTworn reference and 50% on SRTTnew reference. Since the additional test campaign JASIC proposes is only for the Molded SRTTworn reference, the number of Molded SRTTworn runs is 1.5 times the number of Buffed SRTTworn runs in the first test campaign. Therefore, the number of Molded SRTTworn needs to be 1.5 times the number of Buffed SRTTworn used in the first test campaign.

	Trailer method	Vehicle method	Sub total
Number of participated test center	9	5	-
Number of 1 st test campaign	18	57	-
Necessary quantity for additional test campaign	27	90	117
Spare (1 set per lab)	9	20	29
Total			146